

AMENDMENTS TO THE CLAIMS:

The following listing of claims replaces all prior versions, and all prior listings, of claims in the application.

1. (Cancelled).

2. (Currently Amended) An exhaust gas processing apparatus according to claim 18, ~~characterized in that~~wherein:

~~to said at least one centrifugal separation machine such as said cyclone is~~  
provided in ~~said a front stage of a processing system having said interference~~  
chamber,

whereby an efficiency of said ~~at least one centrifugal separation machine~~  
~~such as said cyclone~~ is improved.

3. (Currently Amended) An exhaust gas processing apparatus according to ~~claim 1 or claim 2, characterized in that~~wherein:

to improve said ~~at least one centrifugal separation machine such as said~~  
~~cyclone,~~ an air pressure generation apparatus is constituted in said processing  
system having said interference chamber.

4. and 5. (Cancelled).

6. (Currently Amended) An exhaust gas processing apparatus according to claim 48, ~~characterized in that~~ wherein:

~~in said processing system, said~~ centrifugal separation machine cyclone ~~is~~ combined with an electric dust collection apparatus of the exhaust gas processing apparatus.

7. (Currently Amended) An exhaust gas processing apparatus according to claim 510, characterized in that

~~in said processing system, a cyclone~~ said centrifugal separation machine ~~is~~ combined with an electric dust collection apparatus ~~in~~ of the exhaust gas processing apparatus.

8. (New) An exhaust gas processing apparatus used in a diesel vehicle, comprising:

an interference chamber having a first exhaust gas pipe at an engine side of said interference chamber and a second exhaust gas pipe at an exhaust gas side of said interference chamber;

a centrifugal separation machine provided at a downstream side of said first exhaust gas pipe of said interference chamber; and

an NOx decomposition unit connected to said centrifugal separation machine and provided at an upstream side of said second exhaust gas pipe of said interference chamber, wherein:

said centrifugal separation machine is arranged separately from said interference chamber,

said NOx decomposition unit is arranged separately from said interference chamber; and

said NOx decomposition unit includes a barrier discharge electrode portion, and said barrier discharge electrode portion comprises an insulation electrode portion and plural discharger disc plates having plural discharge portion slits at an outer periphery of said insulation electrode portion,

whereby a particle shape substance in an exhaust gas is caught.

9. (New) An exhaust gas processing apparatus used in a diesel vehicle, comprising:

an interference chamber having a first exhaust gas pipe at an engine side of said interference chamber and a second exhaust gas pipe at an exhaust gas side of said interference chamber;

a centrifugal separation machine provided at a downstream side of said first exhaust gas pipe of said interference chamber; and

an NOx decomposition unit connected to said centrifugal separation machine and provided at an upstream side of said second exhaust gas pipe of said interference chamber, wherein:

said centrifugal separation machine is arranged separately from said interference chamber,

said NOx decomposition unit is arranged separately from said interference chamber,

said NOx decomposition unit includes a barrier discharge electrode portion, and said barrier discharge electrode portion comprises an insulation electrode portion and plural discharger disc plates having plural discharge portion slits at an outer periphery of said insulation electrode portion, and

as an anti-environment material, at least one of a brush, a heater, a burner and a high pressure injection nozzle is provided separately from a processing system having said interference chamber.

10. (New) An exhaust gas processing apparatus used in a diesel vehicle, comprising:

an interference chamber having a first exhaust gas pipe at an engine side of said interference chamber and a second exhaust gas pipe at an exhaust gas side of said interference chamber;

a centrifugal separation machine provided at a downstream side of said first exhaust gas pipe of said interference chamber; and

an NOx decomposition unit connected to said centrifugal separation machine and provided at an upstream side of said second exhaust gas pipe of said interference chamber, wherein:

said centrifugal separation machine is arranged separately from said interference chamber,

said NOx decomposition unit is arranged separately from said interference chamber,

said NOx decomposition unit includes a barrier discharge electrode portion, and said barrier discharge electrode portion comprises an insulation electrode portion and plural discharger disc plates having plural discharge portion slits at an outer periphery of said insulation electrode portion, and

to catch and decompose a particle shape substance in an exhaust gas and a substance containing at least NOx, said interference chamber mitigates and averages a change of a flow in a front stage of a processing system having said interference chamber.

11. (New) An exhaust gas processing apparatus according to any one of claims 8-10, wherein said centrifugal separation machine is separately arranged from said NOx decomposition unit, said NOx decomposition unit being downstream of said centrifugal separation machine.

12. (New) An exhaust gas processing apparatus according to any one of claims 8-10, further comprising a dust collection filter between said centrifugal separation machine and said NOx decomposition unit.